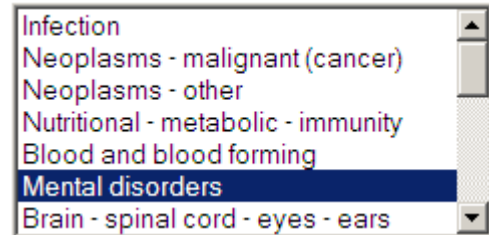


According to Healthy People 2020, mental health is one of the leading health indicators that should be used to monitor the health status of the United States. In the DHSS web tools, mental health data can be accessed through the Inpatient Hospitalization, Emergency Room, Hospital Discharges/Charges/Days of Care, and Chronic Disease MICAs, as well as the Alcohol and Substance Abuse Profile.

To retrieve mental health data from the **ER and Inpatient Hospitalization MICAs**, users can select **Mental disorders** on Step Six, as shown here.



The table shown below displays the state results from the ER MICA.

Emergency Room: Residents of Missouri		
Year		
2010		
Diagnosis	Number of Visits	Rate
Mental disorders	73,952	12.6
Rates Per 1,000 Age Adjustment Uses 2000 Standard Population		
Rotate	Download	

Drilling down on the **Mental disorders** hyperlink reveals a list of more specific diagnoses.

Emergency Room: Residents of Missouri		
Year		
2010		
Diagnosis	Number of Visits	Rate
Mental retardation [65.]	65	0.0
Alcohol and substance-related mental disorders	21,639	3.7
Senility and organic mental disorders [68.]	2,484	0.4
Affective disorders [69.]	11,186	1.9
Schizophrenia and related disorders [70.]	3,217	0.5
Other psychoses [71.]	2,832	0.5
Anxiety - somatoform - dissociative - and personality disorders [72.]	18,192	3.1
Adjustment - undersocialized and other preadult disorders [73.]	1,298	0.2
Other mental conditions [74.]	12,373	2.1
Personal history of mental disorder - mental and behavioral problems- observation and screening for mental condition [75.]	666	0.1
Total for Selection	73,952	12.6
Rates Per 1,000 Age Adjustment Uses 2000 Standard Population		
Rotate	Download	

A further drill-down hyperlink on **Alcohol and substance-related mental disorders** provides the two specific diagnoses below.

Emergency Room: Residents of Missouri		
	Year	
	2010	
Diagnosis	Number of Visits	Rate
Alcohol-related mental disorders [66.]	13,442	2.3
Substance-related mental disorders [67.]	8,197	1.4
Total for Selection	21,639	3.7
Rates Per 1,000 Age Adjustment Uses 2000 Standard Population		
Rotate	Download	

The **Hospital Discharges, Charges and Days of Care MICA** allows users to retrieve data on mental health charges and days of care, as well as the number of hospital discharges (the same data available in the Inpatient Hospitalization MICA). At the top of the query screen the user must choose which type of data to present.

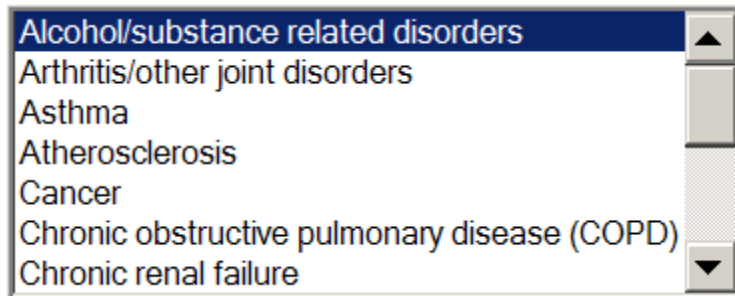
Please specify the specific outcome variables to which the row and column variables

☐ Hospital Discharges
 ☒ Hospital Charges
 ☐ Hospital Days of Care

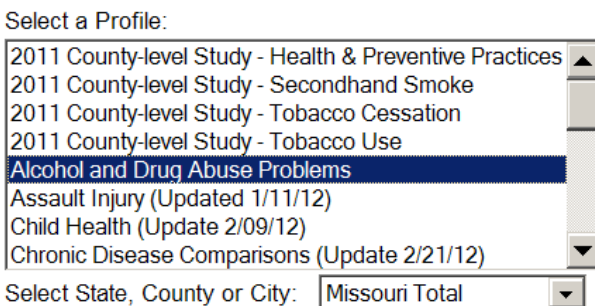
Selecting Hospital Charges and drilling down on the Mental health category returns the total charges for each mental health diagnosis during the time period selected on Step 4 of the query screen. (The screenshot below shows 2008 data.)

Hospital Discharges, Charges, and Days of Care: Residents of Missouri	
	Year
	2008
Diagnosis	Total Charges
Mental retardation [65.]	\$131,881.00
Alcohol and substance-related mental disorders	\$81,347,395.00
Senility and organic mental disorders [68.]	\$75,496,659.00
Affective disorders [69.]	\$339,594,531.00
Schizophrenia and related disorders [70.]	\$127,699,993.00
Other psychoses [71.]	\$24,351,961.00
Anxiety - somatoform - dissociative - and personality disorders [72.]	\$30,810,720.00
Adjustment - undersocialized and other preadult disorders [73.]	\$9,627,335.00
Other mental conditions [74.]	\$45,618,129.00
Personal history of mental disorder - mental and behavioral problems- observation and screening for mental condition [75.]	\$21,240.00
Total for Selection	\$734,699,844.00
Rotate	Download

In the **Chronic Disease MICA**, users can choose to view data on hospitalizations or ER visits. Unlike the MICAs discussed above, the Chronic Disease MICA contains Alcohol and substance-related mental disorders in Step Six of the query screen. However, there are no other mental health categories included.



The **Alcohol and Drug Abuse Problems Profile** links to data published by the Department of Mental Health.



Upon clicking submit, the user will see a page that lists all the counties in Missouri and provides a link to an annual *Status Report on Missouri's Alcohol and Drug Abuse Problems*. This report compares state and national rates of alcohol, tobacco, and other drug use and presents estimates of substance abuse treatment need. The report also provides statewide, regional, and county-level data on substance abuse consequences and the number of individuals served in Division of Alcohol and Drug Abuse treatment programs.

If a county link is selected, a new page with several resources specific to that county appears. The **Community Profile** from the Missouri Behavioral Health Epidemiology Workgroup presents data on current substance abuse of residents 6-12 years of age by county and of residents 18+ years of age by region. It also provides data on women who smoke and use alcohol during pregnancy. In addition, there are county data linking substance abuse and motor vehicle accidents, along with the number of people provided comprehensive psychiatric services for specific psychiatric disorders.

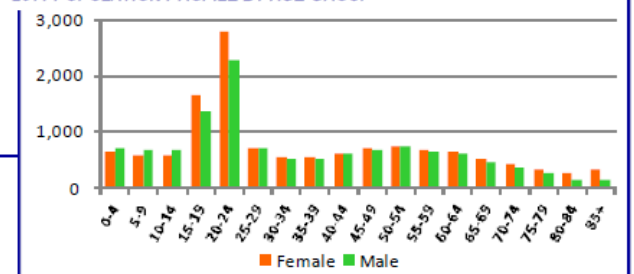
The **Alcohol and Drug Abuse Indicators** link returns a PDF report on the number of alcohol and substance abuse events in the county. A partial screenshot of the Adair County Alcohol and Drug Abuse Indicators: 2010 report is shown here:

ADAIR COUNTY



ADA/CPS REGION Central
ADA SERVICE AREA 14
FIPS COUNTY CODE 001
CENSUS 2010 25,607
2011 POP. ESTIMATE 25,552

2011 POPULATION PROFILE BY AGE GROUP



BIRTH RISK FACTORS				SCHOOL REPORTS			
	2010	2009	2008		2010-2011	2009-2010	2008-2009
Resident Births--Total	261	297	330	Enrollment Grades 9-12	958	978	970
Mother Reported Drinking while Pregnant ¹		0	0	Drop-outs	15	23	35
Mother Reported Smoking while Pregnant	55	58	66	Drop-out Rate	1.6%	2.4%	3.6%
HIV DISEASE RISK FACTORS				School Suspensions, 10 or More Days			
	2010	2009	2008	Alcohol Incidents	0	0	0
New HIV/AIDS Cases--Total	1	1	0	Drug Incidents	1	0	1
IDU and MSM ²	*	*	0	Tobacco Incidents	3	0	1
IDU without MSM ²	*	*	0				
DEATHS and INJURIES				POLICE REPORTS			
	2010	2009	2008		2010	2009	2008
Resident Deaths--Total	200	190	190	DUI Arrests, DWI Tracking System	147	137	137
Suicides	2	2	2	Liquor Law Arrests	148	160	69
Self-inflicted Injuries	31	44	47	Drug Arrests	112	131	16

The **ADA Treatment Admissions** link provides data on the number of individuals who were admitted to Division of ADA substance abuse treatment programs.

The Department of Mental Health (DMH) also has a new **Missouri Behavioral Health Data** query tool that can be accessed at <http://dmh.mo.gov/seow/Default.aspx>.

Now that we have reviewed many of the sources for Missouri mental health data, we wanted to close this section of the newsletter by sharing a YouTube video that provides a view of depression from the perspective of the sufferer. It was made in collaboration with the World Health Organization (WHO) to mark World Mental Health Day. In it, writer and illustrator Matthew Johnstone tells the story of overcoming the "black dog of depression."

<http://www.youtube.com/watch?v=XiCrniLQGYc&feature=youtu.be>

For more information on World Mental Health Day, which is scheduled for October 13, 2013, please visit: http://www.who.int/mental_health/world_mental_health_day/en/index.html

Healthy People 2020 Objectives – Missouri Data Resources

As a result of discussions with several local public health agencies, we are in the process of developing a new resource to assist communities in tracking progress on the Healthy People 2020 objectives. The website <http://health.mo.gov/data/mica/MICA/hpobjectives.html> will provide links to topic area spreadsheets that detail sources of local Missouri data for the Healthy People 2020 objectives.

For each objective we have listed a comparable indicator from a Missouri data source, if available, along with the type of rate (1-year, 5-year, etc.) provided by the source and the geographic levels for which rates are available (state, county, city, region, etc.). The last two columns of the spreadsheet include the U.S. baseline and target rates from the Healthy People website. Users can download the table and add additional columns to incorporate their communities' data, which can be easily accessed using the hyperlinks on the Missouri Data Source labels. The Maternal, Infant, and Child Health topic area has been posted. Additional topic areas will be added as they are completed.

New Annual Vital Statistics Report

The *Missouri Vital Statistics 2010* annual report is now available on the DHSS website at: <http://health.mo.gov/data/vitalstatistics/mvs10/2010MissouriVitalStatistics.pdf>.

The report includes information on births, deaths, fetal deaths, marriages, dissolutions, and abortions for the 2010 time period. Its publication was delayed due to Missouri's adoption of electronic birth and death certificates and implementation of the 2003 Revisions of the U.S. Standard Certificates of Live Births and Deaths. The new web-based registration system collects some pre-existing data items in different ways. In addition, the revised certificate includes some new data elements and collects old elements in new ways. As a result, differences between 2010 tabulations and prior years may be the result of changes in data collection methods rather than changes in health status. Major changes in data collection methods are addressed in the appendix to the report. Differences between 2010 tabulations and prior years should be evaluated with these changes in mind.

Public Health Spotlight



Jeremy Kintzel is a Research Analyst IV in the Maternal and Child Health (MCH) unit within the Office of Epidemiology. He is originally from Kansas and attended Pittsburg State University and Kansas State University, where he completed undergraduate and graduate degrees in English. He also has a graduate degree in Information Systems. Jeremy has worked for the State of Missouri for seven years, the last three at DHSS.

Jeremy provides analytical support for several programs related to maternal and child health. Jeremy and the other staff in the MCH unit work on the Pregnancy Risk Assessment Monitoring System (PRAMS), a monthly survey of women who have recently given birth. The survey collects information about the mothers' experiences prior to, during, and immediately after pregnancy, including such issues as access to care, maternal stressors, and postpartum depression. He also assists with reporting of performance measures for the Title V Maternal and Child Health Services Block Grant, which supports a range of different programs across the department. Jeremy works with the Maternal, Infant, and Early Childhood Home Visiting Program (MIECHV) as well. MIECHV provides federal funds to support home visiting programs, such as Parents as Teachers, Nurse Family Partnership, and Early Head Start, in high-risk areas of the state.

Jeremy feels encouraged and is optimistic about the future health of Missourians. Asked about what he does with his free time, he said, "Free time, what's that?" Jeremy and his wife have two beautiful children, ages 3 and 6 years old, and he spends his time outside of work with them, keeping them busy and making sure they are well taken care of. Jeremy also manages to find time to run every day.

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**Summer 2013 MICA Trainings**

Sessions of *Introduction to Profiles and MICA* and *Health Data Analysis* have been scheduled for the following dates and locations. The registration form for these trainings is located at <https://webapp03.dhss.mo.gov/snapwebhost/surveylogin.asp?k=136630115988>.

| <b>Location:</b>                                                                                                     | <b>Course 1:<br/><i>Introduction to Profiles/MICA</i></b> | <b>Course 2:<br/><i>Health Data Analysis</i></b> | <b>Course 3:<br/><i>Health Data Workshop</i></b> |
|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------|--------------------------------------------------|
| <b>University of Missouri – Columbia</b><br>Cornell Hall, Room 004<br>Columbia, MO 65211                             | May 29<br>Deadline: May 17                                | May 30<br>Deadline: May 17                       | N/A                                              |
| <b>Missouri State University</b><br>Address TBD<br>Springfield, MO                                                   | June 4<br>Deadline: May 22                                | June 5<br>Deadline: May 22                       | N/A                                              |
| <b>Kansas City Health Department</b><br>2400 Troost Avenue<br>3 <sup>rd</sup> Floor Training Room<br>Kansas City, MO | June 25<br>Deadline: June 14                              | June 26<br>Deadline: June 14                     | N/A                                              |

Additional information about the trainings is available on our training website (<http://health.mo.gov/data/mica/MICA/healthdatatraining.html>). Sessions of the *Health Data Workshop* may be added later in the summer.



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## MICA Newsletter Website

Several readers have requested that we create an archived site for older editions of the newsletter. Past editions can now be found at <http://health.mo.gov/data/mica/MICA/newsletters.html>.

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## Data Updates

Several of the Profiles and Data MICAs have been updated since the publication of the last newsletter.

Death MICA – through 2011

Medicaid MICA – through January 2013

Population MICA – through 2011, with final intercensal estimates for 2001-2009

Preventable Hospitalizations MICA – through 2010

TANF (Temporary Assistance for Needy Families) MICA – through January 2013

Hospital Revenues Profile – through 2011

Social and Economic Indicators Profile – through 2007-2011

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## Recent/Upcoming Events

The Bureau of Health Care Analysis and Data Dissemination has been very busy during the last quarter. *Introduction to Profiles and MICA* and *Health Data Analysis* were offered primarily to internal DHSS staff on February 7-8 and again on March 5-6. Participants represented a wide range of the Department's programs. In addition to teaching them about the MICA tools, we had the chance to learn about some of the data they collect. The March trainings were especially exciting because two of our newer analysts, Becky Chitima-Matsiga and Rashmi Davanagere, had the opportunity to teach sections for the first time.

On February 11, Andy and Becca presented a webinar on the data tools to students in a graduate community health assessment course at the University of Missouri – Columbia. They were supposed to provide much of the same material in an undergraduate community and public health nursing course on February 21, but several inches of snow caused that presentation to be delayed until March 7. A photo from that presentation is shown to the right. Thanks to the MU faculty for allowing us to share the Department's resources.



## Q&A

What are the County Health Rankings? This valuable resource, a collaboration between the Robert Wood Johnson Foundation and the University of Wisconsin Population Health Institute, uses a variety of health indicators to rank counties within every state in the U.S. Two summary ranks are provided. The Health Outcomes measure uses morbidity and mortality data to give the current state of health in each county. In contrast, the Health Factors measure provides insight into the future health of each county by incorporating a combination of socio-economic, behavioral health, clinical care, and physical environment data. The 2013 update to the County Health Rankings ([www.countyhealthrankings.org](http://www.countyhealthrankings.org)) occurred on March 20th. For 2013, a new indicator is included on the Health Factors component to measure the density of dentists in each county.

We occasionally receive questions about the County Health Rankings. One common question is, “How do the County Health Rankings differ from Priorities MICA?” Both tools use health data to determine rankings. However, they are ranking different things. The County Health Rankings compare health status among all counties in the state (115 counties in Missouri), while Priorities MICA ranks specific diseases or risk factors (40 diseases and 24 risk factors available) within an individual county.

Another common question is, “Which data are more current?” A common misconception is that the County Health Rankings have more recent data since the 2013 update is complete, while most of the Profiles and MICA tools only show data through 2009, 2010, or 2011 (depending on the specific dataset selected). In fact, though, the 2013 County Health Rankings refer to the data *available* in 2013, not data *for* the year 2013. The County Health Rankings use a multi-year approach for most indicators. For instance, the mortality statistic Years of Potential Life Lost (YPLL) combines data from 2008-2010 to calculate YPLL rates. (This can be determined for each indicator by clicking on the Measure tab and checking the Ranking Methodology table.) Using the Missouri Death MICA, the same statistic could be calculated using data through 2011. The County Health Rankings must wait until most states have reported a particular statistic before they can update, while Missouri is not constrained in that regard. As a result, the County Health Rankings usually lag slightly behind MICA in terms of incorporating the most recent data available.



We do not intend for the explanations above to be construed as criticism but are rather just pointing out the differences between these two tools that have different purposes. We strongly encourage persons interested in public health to access the County Health Rankings to gain a better understanding of how their county compares to the rest of the state and the nation. Many of the data provided are unlike anything that is available on the MICA suite of tools. The County Health Rankings website also includes guidance on taking action to use the rankings as part of community health improvement efforts.



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Practice Exercise

Many of you have asked for additional exercises so that you can practice the skills you learned at the MICA trainings. Here is a chance for you to do so. If you would like to check your work, the answer is posted on the DHSS website. A link to the answer is provided at the bottom of this section.

You work for the Washington County Health Department and are interested in applying for a grant to prevent tobacco use and support tobacco cessation programs in your county. Use the 2011 County-Level Study Profiles to research tobacco use in Missouri.

1. What is the Washington County prevalence of current cigarette smoking? _____
Is the Washington County prevalence statistically significantly different from the state prevalence? _____
2. What is the Central Region (which includes Washington County) prevalence of current cigarette smoking? _____
Is the Central Region prevalence statistically significantly different from the state prevalence? _____
3. Use the Download Indicator Data column to determine which region has the highest current cigarette smoking prevalence. _____
Which region has the lowest prevalence? _____
Which county/city has the highest prevalence of current cigarette smoking? _____
Which has the lowest? _____
4. What is the Washington County prevalence of former cigarette use? _____
Is the Washington County prevalence statistically significantly different from the state prevalence? _____
5. What is the Washington County prevalence of smokeless tobacco use? _____
Is the Washington County prevalence statistically significantly different from the state prevalence? _____
6. What are the Washington County prevalence rates for belief that smoking cigarettes causes the following conditions?

Condition	Prevalence Rate
Heart attack	
Colon cancer	
Stroke	
Low-birth weight	
Impotence	

Visit <http://health.mo.gov/data/mica/MICA/solutions.html> to check the solution.

Final Thoughts

Since we are writing this newsletter during March Madness, we'll close with a photo of the members of our team who participated in a Sports Day event at DHSS. Staff were encouraged to wear shirts that represented their favorite college team.



About the MICA User Group Newsletter

The MICA User Group Newsletter was created in response to user requests for communication on updates to the MICA system, descriptions of new features, additional practice exercises, announcements of training opportunities, and any other new information about data that might help them perform their jobs more efficiently.

Newsletters will be published on a quarterly basis. If you have ideas for content, please send them to Andrew.Hunter@health.mo.gov or Becca.Mickels@health.mo.gov. We would especially like to feature stories describing your success at completing projects or obtaining grants using the MICA tools as well as interviews with public health professionals about your duties and how you use MICA to accomplish them.

How to Sign Up or Opt Out

If you have enjoyed this newsletter, please feel free to share it with your colleagues and community partners. We encourage them to sign up for the MICA User Group by sending an e-mail to Andrew.Hunter@health.mo.gov or Becca.Mickels@health.mo.gov with the subject line MICA User Group. This will let us know to send newsletters to them directly so they do not miss any information. Also, we may occasionally distribute time-sensitive information on topics

such as training opportunities via e-mail if the newsletter is not scheduled for publication prior to a registration deadline. Finally, the MICA User Group list helps us track the types of organizations using the tools, which is one of our performance measures.

If you would like to opt out of the MICA User Group, please send an e-mail with Unsubscribe in the subject line to Becca.Mickels@health.mo.gov. PLEASE NOTE: Depending on your position title, you may still receive other types of e-mail messages from us. For example, we are requested to send training information to all LPHA Administrators, even if they have unsubscribed from the MICA User Group.

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